Notice of Allowability	Application No.	Applicant(s)
	09/749,660	KHARE ET AL.
	Examiner	Art Unit
	Tuan V. Thai	2186
The MAILING DATE of this communication appear All claims being allowable, PROSECUTION ON THE MERITS IS herewith (or previously mailed), a Notice of Allowance (PTOL-85) NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT RI of the Office or upon petition by the applicant. See 37 CFR 1.313	(OR REMAINS) CLOSED in this app or other appropriate communication IGHTS. This application is subject to	plication. If not included will be mailed in due course. THIS
1. X This communication is responsive to amendment filed 12/2	<u>28/2006</u> .	
2. The allowed claim(s) is/are 1-6, 8-27 and 29 renumbered a	as 1-27 respectively.	
 Acknowledgment is made of a claim for foreign priority una)	been received. been received in Application No	
Applicant has THREE MONTHS FROM THE "MAILING DATE" noted below. Failure to timely comply will result in ABANDONM THIS THREE-MONTH PERIOD IS NOT EXTENDABLE.	of this communication to file a reply lENT of this application.	complying with the requirements
4. A SUBSTITUTE OATH OR DECLARATION must be subminiformal PATENT APPLICATION (PTO-152) which give	itted. Note the attached EXAMINER'es reason(s) why the oath or declara	S AMENDMENT or NOTICE OF tion is deficient.
5. CORRECTED DRAWINGS (as "replacement sheets") must be submitted.		
(a) including changes required by the Notice of Draftsperson's Patent Drawing Review (PTO-948) attached		
1) hereto or 2) to Paper No./Mail Date		
(b) ☐ including changes required by the attached Examiner's Paper No./Mail Date	s Amendment / Comment or in the O	office action of
Identifying indicia such as the application number (see 37 CFR 1, each sheet. Replacement sheet(s) should be labeled as such in the	.84(c)) should be written on the drawir he header according to 37 CFR 1.121(c	ngs in the front (not the back) of d).
DEPOSIT OF and/or INFORMATION about the deposit attached Examiner's comment regarding REQUIREMENT I	sit of BIOLOGICAL MATERIAL n FOR THE DEPOSIT OF BIOLOGIC	nust be submitted. Note the AL MATERIAL.
Attachment(s) 1. ☐ Notice of References Cited (PTO-892) 2. ☐ Notice of Draftperson's Patent Drawing Review (PTO-948) 3. ☐ Information Disclosure Statements (PTO/SB/08),	5. ☐ Notice of Informal P. 6. ☐ Interview Summary Paper No./Mail Dat 7. ☐ Examiner's Amendn	(PTO-413), e
Paper No./Mail Date 4. Examiner's Comment Regarding Requirement for Deposit of Biological Material	8. ⊠ Examiner's Stateme 9. □ Other	TUANV.THAI

Application/Control Number: 09/749,660 -Page 2-

Art Unit: 2186

Attorney's Docket No.: 2207/9865

IN THE UNITED STATES PATENT AND

TRADEMARK OFFICE

In re application of: Khare et al. Group: 2186

Serial No.: 09/749,660 Examiner: Tuan Thai

For: METHOD AND APPARATUS FOR REDUCING MEMORY LATENCY IN A

CACHE COHERENT MULTI-NODE ARCHITECTURE.

1. This action is responsive to amendment filed December 28, 2006. Claims 7 and 28 have been cancelled. Claims 1-6, 8-27 and 29 are now allowed.

REASONS FOR ALLOWANCE

2. The following is an Examiner's Statement of Reasons for Allowance:

The prior arts of record do not teach or suggest, alone or in combination, all the limitations of the independent claims of the current invention (claims 1, 9, 19 and 24). Claims 1 and 9 references a "method for reducing memory latency in a multi-node architecture"; claims 19 and 24 references "a system and home node for responding to read requests in a multi-node architecture having plurality of nodes". The discussion of the reasons for

Application/Control Number: 09/749,660

Art Unit: 2186

allowance shall be directed to claim 1 in which the Examiner shall designate as the primary invention in this application; however, the reasons for allowance will also apply to all other indicated independent claims (claims 9, 19 and 24). The prior arts of record do not teach nor suggest a system and method for reducing memory latency in a multi-node architecture comprises issuing a memory read request from a requesting node; issuing a speculative memory read request from a coherence agent in response to the memory read request from the requesting node; receiving the speculative memory read request at a home node before results of a cache coherence protocol are determined; and initiating a read to memory at the home node to complete the speculative memory read request before results of the cache coherence protocol are received by the home node. In light of the foregoing, claims 1, 9, 19 and 24 of the present application are found to be patentable over the prior arts.

Claims 2-6, 8, 10-18, 20-23, 25-27 and 29 further limit the allowable independent claims 1, 9, 19 and 24. These claims are therefore allowable for the same reason as set forth above.

Any comments considered necessary by Applicant must be submitted no later than the payment of the Issue Fee and, to avoid processing delays, should preferably accompany the Issue Fee. Such submissions should be clearly labeled "Comments on Statement of Reasons for Allowance."

Application/Control Number: 09/749,660

Art Unit: 2186

3. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Tuan V. Thai whose telephone number is (571)-272-4187. The examiner can normally be reached on from 6:30 A.M. to 4:00 P.M..

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Mathew M. Kim can be reached on (571)-272-4182. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300. Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

TVT/January 17, 2007

DDIMADV EVAMINED

Group 2100